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### 21 BIT—a child of the computer

77%



C.-E. Froberg

**Proceedings of the ACM conference on History of scientific and numeric computation** October 1987

The back-ground of the Scandinavian computer journal B I T will be outlined, in particular with respect to computational demands in science, technology, industry and defense. The history of B I T will be described and related to the evolution of computers, numerical mathematics and computer science. Some contributed papers which have had an impact on the general development will be discussed briefly. The 19th century could perhaps be characterized as a period of preparation for t ...

### 22 Computing curricula 2001

77%



**Journal on Educational Resources in Computing (JERIC)** September 2001

### 23 Automatic categorization of case law







77%



Paul Thompson

**Proceedings of the 8th international conference on Artificial intelligence and law** May 2001

This paper describes a series of automatic text categorization experiments with case law documents. Cases are categorized into 40 broad, high-level categories. These results are compared to an existing operational process using Boolean queries manually constructed by domain experts. In this categorization process recall is considered more important than precision. This paper investigates three algorithms that potentially could automate this categorization process: 1) a nearest neighbor-like a ...

- 24** Development cost and size estimation starting from high-level specifications 77%  
 William Fornaciari , Fabio Salice , Umberto Bondi , Edi Magini  
**Proceedings of the ninth international symposium on Hardware/software codesign** April 2001  
 This paper addresses the problem of estimating cost and development effort of a system, starting from its complete or partial high-level description. In addition, some modifications to evaluate the cost-effectiveness of reusing VHDL-based designs, are presented. The proposed approach has been formalized using an approach similar to the COCOMO analysis strategy, enhanced by a project size prediction methodology based on a VHDL function point metric. The proposed design size estimation methodol ...
- 25** Database research: achievements and opportunities into the 1st century 77%  
 Avi Silberschatz , Mike Stonebraker , Jeff Ullman  
**ACM SIGMOD Record** March 1996  
 Volume 25 Issue 1
- 26** Information retrieval on the web 77%  
 Mei Kobayashi , Koichi Takeda  
**ACM Computing Surveys (CSUR)** June 2000  
 Volume 32 Issue 2  
 In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...
- 27** Problems, knowledge, solutions (invited session): solving complex problems 77%  
 Enid Mumford  
**Proceedings of the international conference on Information systems** December 1998
- 28** Image inpainting 77%  
 Marcelo Bertalmio , Guillermo Sapiro , Vincent Caselles , Coloma Ballester  
**Proceedings of the 27th annual conference on Computer graphics and interactive techniques** July 2000  
 Inpainting, the technique of modifying an image in an undetectable form, is as ancient as art itself. The goals and applications of inpainting are numerous, from the restoration of damaged paintings and photographs to the removal/replacement of selected objects. In this paper, we introduce a novel algorithm for digital inpainting of still images that attempts to replicate the basic techniques used by professional restorators. After the user selects the regions to be restored, the algorithm ...
- 29** Improving and managing multimedia performance over TCP-IP nets 77%  
 Nathan J. Muller  
**International Journal of Network Management** December 1998  
 Volume 8 Issue 6  
 The TCP-IP-based Internet and, consequently corporate Intranets, were not designed

for multimedia traffic. This article discusses the several ways of improving multimedia performance, finding that data compression techniques are no longer the most important factor. © 1998 John Wiley & Sons, Ltd.

### 30 Reducing computational complexity with array predicates 77%



Robert Bernecky

**ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language** July 1998

Volume 29 Issue 3

This article describes how *array predicates* were used to reduce the computational complexity of four APL primitive functions when one of their arguments is a permutation vector. The search primitives, *indexof* and set membership, and the sorting *primitives*, upgrade and downgrade, execute in linear time on such arguments. Our contribution, a method for static determination of array properties, lets us generate code that is optimized for special cases of primitives. Our approach ...

### 31 Integrated solid modeler based solutions for machining 77%



Allan D. Spence , Farid Abrari , M. A. Elbestawi

**Proceedings of the fifth ACM symposium on Solid modeling and applications** June 1999

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Chris Preist , Maarten van Tol

**Proceedings of the first international conference on Information and computation economies** October 1998

### 33 Bibliography of recent publications on computer communication 77%



Martha Steenstrup

**ACM SIGCOMM Computer Communication Review** January 1998

Volume 28 Issue 1

The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and the ...

### 34 The joy of actuaries 77%



Jan Karman

**ACM SIGAPL APL Quote Quad** December 1996

Volume 27 Issue 2

### 35 Adding imageability features to information displays 77%



Matthew Chalmers , Robert Ingram , Christoph Pfranger

**Proceedings of the 9th annual ACM symposium on User interface software and technology** November 1996

### 36 The design and implementation of an object-oriented toolkit for 3D 77%



graphics and visualization

William J. Schroeder , Kenneth M. Martin , William E. Lorensen  
**Proceedings of the 7th conference on Visualization '96** October 1996

**37** Experiments on using semantic distances between words in image 77%



caption retrieval

Alan F. Smeaton , Ian Quigley

**Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval** August 1996

**38** Depicting fire and other gaseous phenomena using diffusion processes 77%



Jos Stam , Eugene Fiume

**Proceedings of the 22nd annual conference on Computer graphics and interactive techniques** September 1995

**39** Fuzzy control of technological processes in APL2 77%



Alexander O. Skomorokhov , K.-H. Reinhardt , G. Roche , M. Tielemann

**ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages** June 1995

Volume 25 Issue 4

A fuzzy control system has been developed to solve problems which are difficult or impossible to control with a proportional integral differential approach. According to system constraints, the fuzzy controller changes the importance of the rules and offers suitable variable values. The fuzzy controller testbed consists of simulator code to simulate the process dynamics of a production and distribution system and the fuzzy controller itself. The results of our tests confirm that this approach ...

**40** Using semantic values to facilitate interoperability among 77%



heterogeneous information systems

Edward Sciore , Michael Siegel , Arnon Rosenthal



**ACM Transactions on Database Systems (TODS)** June 1994

Volume 19 Issue 2

Large organizations need to exchange information among many separately developed systems. In order for this exchange to be useful, the individual systems must agree on the meaning of their exchanged data. That is, the organization must ensure semantic interoperability. This paper provides a theory of semantic values as a unit of exchange that facilitates semantic interoperability between heterogeneous information systems. We show how semantic values can ei ...

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